

Applicant: Thompson, P.  
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22. (Amended) An expandable stent-graft comprising:

- (a) a braided self-expanding stent characterized by a longitudinal shortening upon radial expansion from a first longitudinal stent length to a second longitudinal stent length; and
- (b) at least one tubular layer of biaxially oriented expanded polytetrafluoroethylene comprising nodules and fibrils affixed to the stent characterized by a shortening of average longitudinal inter-nodule distance upon radial expansion from a first average longitudinal inter-nodule distance to a second average longitudinal inter-nodule distance and having (i) a first average longitudinal inter-nodule distance of between about 50 and about 150 microns, and (ii) a second average longitudinal inter-nodule distance of between about 0 and about 50 microns;
- wherein the ratio of first longitudinal stent length to second longitudinal stent length is within about 25 percent of the ratio of first average longitudinal inter-nodule distance to a second average inter-nodule distance.